

Date: Tue, 1 Mar 94 04:30:31 PST  
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>  
Errors-To: Ham-Homebrew-Errors@UCSD.Edu  
Reply-To: Ham-Homebrew@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Homebrew Digest V94 #46  
To: Ham-Homebrew

Ham-Homebrew Digest                      Tue, 1 Mar 94                      Volume 94 : Issue    46

Today's Topics:

    Forming inductors out of PCB traces question (2 msgs)  
                    linear amp?? (2 msgs)  
    Looking for Motorola VHF power transistor sources

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>  
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.  
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Date: Sun, 27 Feb 1994 09:50:05 GMT  
From: netcomsv!netcom.com!samiam@decwrl.dec.com  
Subject: Forming inductors out of PCB traces question  
To: ham-homebrew@ucsd.edu

jdc3538@ulfb.isc.rit.edu (J.D. Cronin) writes:

>I once saw a RF modulator that used PC board traces for the inductor  
>in its tuned circuit; they were in a spiral pattern. Is this a good  
>method for forming inductors? Does capacitance to a ground plane  
>layer mess things up? I'd like to form a lowpass filter, so stray  
>capacitance to ground may not be a really bad thing..

>Also, how does one compute inductance? The ARRL Handbook gives a  
>formula for inductance of a coil where (coil length) > (.4 \* coil diameter).  
>In this case we are working in a flat plane, so coil length = 0.  
>Also, coil diameter is not constant with a spiral inductor.

>Any suggestions, ideas or references to books/articles are appreciated.

>73...Jim  
>N2VNO

Perhaps my own bias, but in IC layout there is much discussion of L calculation for traces. That's where I would look. Note that many PCB oriented books treat L of traces as strictly parasitic.

[sam]

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Scott A. Moore [SAM] | OS/2: Better half an os than none at all !  
samiam@netcom.com | SEGMENTATION: is great for bamboo.  
San Jose, CA USA | FUZZY LOGIC: is already, sadly, in wide use.  
408-383-9154
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Date: 27 Feb 94 16:24:41 GMT  
From: yuma!galen@purdue.edu  
Subject: Forming inductors out of PCB traces question  
To: ham-homebrew@ucsd.edu

In article <samiamCLvnBH.62D@netcom.com> samiam@netcom.com (Scott Moore) writes:  
>jdc3538@ulb.tb.isc.rit.edu (J.D. Cronin) writes:

>>I once saw a RF modulator that used PC board traces for the inductor  
>>in its tuned circuit; they were in a spiral pattern.  
>>I'd like to form a lowpass filter, so stray  
>>capacitance to ground may not be a really bad thing..  
>>Also, coil diameter is not constant with a spiral inductor.

>  
>>Any suggestions, ideas or references to books/articles are appreciated.  
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>>N2VNO

>Perhaps my own bias, but in IC layout there is much discussion of L calculation  
>for traces. That's where I would look. Note that many PCB oriented books  
>treat L of traces as strictly parasitic.

> [sam]

Yer readin' the wrong books.

Try the ARRL UHF/Microwave Experimenters' Manual. Nice treatment of MICROSTRIP elements. If you want more theory, back up a chapter to the end of transmission media. They don't get into complex configurations like spirals, but there is a long list of references for further reading.  
galen, KF0YJ  
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Date: 27 Feb 1994 22:14:57 GMT  
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!uwm.edu!csd4.csd.uwm.edu!  
jjessie@network.ucsd.edu  
Subject: linear amp??  
To: ham-homebrew@ucsd.edu

does anybody have any plans for a 30-150 (preferably 100) watt linear amp??  
thanks,  
scott jessie

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Date: 28 Feb 94 00:31:04 GMT  
From: yuma!galen@purdue.edu  
Subject: linear amp??  
To: ham-homebrew@ucsd.edu

In article <2kr611INN6sr@uwm.edu> jjessie@csd4.csd.uwm.edu (Joyce K Jessie)  
writes:  
>does anybody have any plans for a 30-150 (preferably 100) watt linear amp??  
>scott jessie

What Frequencies?  
Get a catalog from Communication Concepts Inc. 513-426-8600 They'll have  
kits, circuit boards, transistors, transformers....

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Date: 28 Feb 1994 00:04:18 GMT  
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!bga.com!vern.bga.com!  
kbrune@network.ucsd.edu  
Subject: Looking for Motorola VHF power transistor sources  
To: ham-homebrew@ucsd.edu

J.D. Cronin (jdc3538@ulb.tsc.rit.edu) wrote:

: I'm looking for some Motorola VHF power transistors (MRF240/A and  
: others). The only catalog I found them in is from a company that  
: is no longer in business. Any suggestions? I looked in the  
: mailorder list from ftp.cs.buffalo.edu, but nothing looked  
: promising.

: 73...Jim  
: N2VNO

Jim, Newark Electronics has it for \$25 they have offices all over here is

the Washington State # 1-800-321-8984....Ken WL7IR

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End of Ham-Homebrew Digest V94 #46

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